Combining Transformations

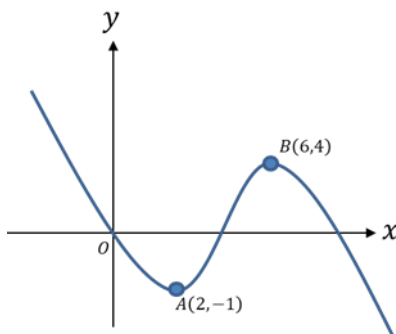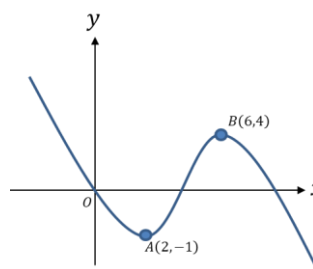|	Affects what axis?	What we expect or opposite?
Change inside f( )		
Change outside f( )		

In L6 we studied transformations. Here we are asked to combine more than one transformation to a function.
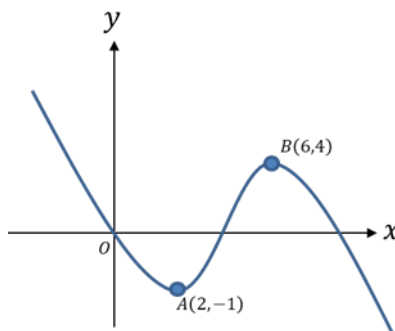
Examples

1. Here is a graph of $y = f(x)$.
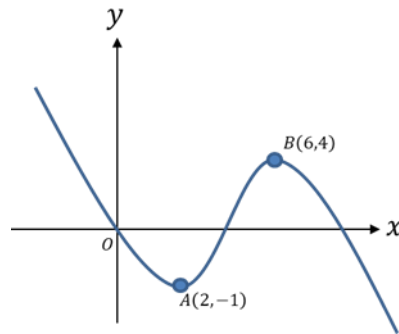
   Sketch the graph of:

   a) $y = 2f(x + 2)$

a)) $y = -f(2x)$

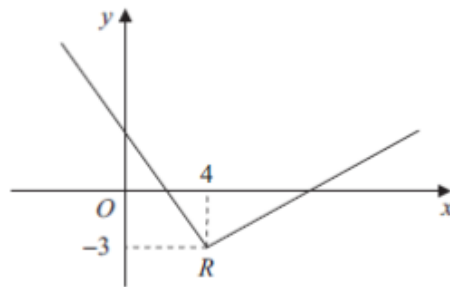b) $y = |f(-x)|$

Test Your Understanding

Figure 1

Figure 1 shows part of the graph of $y = f(x)$, $x \in \mathbb{R}$.

The graph consists of two line segments that meet at the point R $(4, -3)$, as shown in Figure 1.

Sketch, on separate diagrams, the graphs of

(a) $y = 2f(x + 4)$,   (3)
(b) $y = |f(-x)|$.   (3)
On each diagram, show the coordinates of the point corresponding to R.

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